

ABSTRACT

The invention relates to a method for removing material from a three-dimensional surface (1) of any shape in a single or multilayered manner by means of a material removing agent (9), such as a laser, that acts in points on the a surface and where a surface structure (2) is applied to the three-dimensional surface (1); wherein the inventive methods can be carried out in such a way that the surface (1) is described by a mathematical function and approximated by a polygon whereby each polygon of the polygon network is assigned to a work area for the laser. Raster images are associated with each of the polygons, which determine the depth values for the surface structure. The polygons (3) are removed line by line. When the depth values of the surface structure differ by a large margin, the material removal takes place in several layers (7) of polygon networks.